

CLAIMS

What Is Claimed Is:

Claim 1. A smart card handling device including a communication board attaching unit for communicating with a non-contact type smart card, the communication board attaching unit being located along a transporting passageway for the smart card, the communication board attaching unit comprising:

a first base; and

a second base for detachably mounting to the first base, the second base having a first communication board attaching section and a second communication board attaching section for receiving a first communication board and a second communication board for communicating with a non-contact type smart card along the transporting passageway.

Claim 2. The smart card handling device of Claim 1,

wherein the first communication board attaching section and the second communication board attaching section are disposed adjacent to each other in a vertical stack.

Claim 3. The smart card handling device of Claim 2, further comprising:

a one-touch operating unit for attaching the second base to the first base,

wherein the second base has an upper surface and when the second base is attached to the first base the upper surface of the second base defines a portion of the transporting passageway.

Claim 4. The smart card handling device of Claim 2,

wherein the second communication board attaching section is located between the first communication board attaching section and the second base upper surface, the first

communication board and the second communication board being fixed in the second base by a fixing means.

Claim 5. The smart card handling device of Claim 2, the first base further including:

a third communication board attaching section for attaching a third communication board so that when the second base is attached the rear portion of the second base fixes the third communication board at the first base.

Claim 6. The smart card handling device of Claim 2, further comprising:

a contact type communication unit having a contact type communication board for attaching at the one-touch attaching section of the first base, the contact type communication board for communicating with a contact type smart card in the transporting passageway.

Claim 7. The smart card handling device of Claim 2, the communication board attaching unit further comprising:

a first guiding plate disposed adjacent to the lower surface of the communication board attaching unit,

wherein when the communication board attaching unit pivots, the first guiding plate crosses the transporting passageway at a first angle.

Claim 8. The smart card handling device of Claim 7, further comprising:

a second guiding plate attached adjacent to the first guiding plate,

wherein when the communication board attaching unit pivots, the second guiding plate defines a plane that crosses the transporting passageway at a second angle, the second angle being larger than the first angle.

Claim 9. The smart card handling device of Claim 8, further comprising:

a card receiving unit for receiving a card from a user, the card being one of a non-contact type smart card, a contact type smart card, and a magnetic type card;

a magnetic card handling unit for communicating with magnetic type cards;

a first transporting unit disposed between the card receiving unit and the magnetic card handling unit for transporting cards between the card receiving unit and the magnetic card handling unit along the transporting passageway; and

a second transporting unit disposed between the magnetic card handling unit and the communication board attaching unit for transporting cards between the magnetic card handling unit and the communication board attaching unit along the transporting passageway.

Claim 10. A smart card handling device including a transporting passageway for transporting the smart card within the smart card handling device, comprising:

a first base disposed adjacent to the transporting passageway; and

a second base disposed adjacent to the transporting passageway and located opposite from the first base so that the transporting passageway defines a path between the first base and the second base,

wherein the second base is one of a contact type smart card communication unit and a non-contact type smart card communication unit for communicating with a predetermined type of smart card located along the transporting passageway.

Claim 11. The smart card handling device of Claim 10, further comprising:

a one-touch attaching unit including a first one-touch attaching section and a second one-touch attaching section, the first one-touch attaching section being disposed between the transporting passageway and the first base and the second one-touch attaching section being disposed between the transporting passageway and the second base, the first

one-touch attaching section and second one-touch attaching section forming complementary mating sections for mounting the second base to the first base.

Claim 12. A system for communicating with plurality of different types of smart cards, comprising:

a first base unit having a universal attachment section; and

a second base unit for supporting one of a contact and a non-contact type smart card communication units according to a predetermined smart card type, the second base unit for detachably mounting on the first base unit universal attachment section, the smart card communication units for communicating with a smart card located adjacent to the first base unit.

Claim 13. A card handling device, comprising:

a card receiving unit for receiving a card from a user and transporting the card to the interior of the card handling device, the card receiving unit for dispensing a card to a user, the card being one of a magnetic card, a non-contact type smart card, and a contact type smart card;

a first transporting unit for receiving the card from the card receiving unit and reverseably transporting the received card along a transporting passageway;

a magnetic card handling unit for communicating with a magnetic card, the magnetic card handling unit being disposed along the transporting passageway and receiving a card from the first transporting unit;

a second transporting unit for receiving the card from the first transporting unit and reverseably transporting the card along the transporting passageway;

a communication board attaching unit for receiving one of a set of non-contact type communication boards for communicating with a non-contact type smart card and a set of contact type communication boards for communicating with a contact type smart card,

wherein the communication board attaching unit includes a universal attachment section for releasably attaching one of the set of non-contact type and contact type communication boards.

Claim 14. The card handling device of Claim 13, further comprising:

a recycling unit for selectively pivoting the communication board attaching unit to block the transporting passageway and deflect the path of a transported card into a recycling section.

Claim 15. The card handling device of Claim 1, further comprising:

a fastener for releasably fastening the second base to the first base,

wherein the fastener device is one of a screw and a one-tough fixing pin.